IMPLEMENTATION SCHEDULE

The Implementation Schedule that follows describes recovery task priorities, task numbers, task descriptions, duration of tasks, potential or participating responsible parties, total cost estimate and estimates for the next five years, if available, and comments. These tasks, when accomplished, are expected to lead to recovery of bull trout in the Umatilla-Walla Walla Recovery Unit. Cost estimates are not provided for tasks which are normal agency responsibility under existing authorities. It should be noted that many of the estimated costs assigned to these recovery tasks will also benefit listed salmon and steelhead.

Parties with authority, responsibility, or expressed interest to implement a specific recovery task are identified in the Implementation Schedule. Listing a responsible party does not imply that prior approval has been given or require that party to participate or expend any funds. However, willing participants will benefit by demonstrating that their budget submission or funding request is for a recovery task identified in an approved recovery plan, and is therefore part of a coordinated recovery effort to recover bull trout. In addition, Section 7(a)(1) of the Endangered Species Act directs all Federal Agencies to use their authorities to further the purposes of the Act by implementing programs for the conservation of threatened or endangered species.

The following are definitions to column headings and keys to abbreviations and acronyms used in the Implementation Schedule:

Priority Number: All priority 1 tasks are listed first, followed by priority 2 and priority 3 tasks.

Priority 1: An action that must be taken to prevent extinction or to prevent the species from declining irreversibly in the foreseeable future.

Priority 2: An action that must be taken to prevent a significant decline in species' population or habitat quality, or some other significant negative impact short of extinction.

Priority 3: All other actions necessary to provide for full recovery (or reclassification) of the species.

Task Number and Task Description: Recovery tasks as numbered in the recovery outline. Refer to the Narrative for task descriptions.

Task Duration: Expected number of years to complete the corresponding task. Study designs can incorporate more than one task, which when combined can reduce the time needed for task completion.

Responsible or Participating Party: The following organizations are those with responsibility or capability to fund, authorize or carry out the corresponding recovery task. An asterisk indicates agency or agencies that have the lead role for task implementation and coordination, though not necessarily sole responsibility. Additional identified agencies or parties are considered cooperators in restoration efforts.

BCC	Boise Cascade Corporation, Inc.
BLM	U.S. Bureau of Land Management
CD	Conservation Districts
CTUIR	Confederated Tribes of the Umatilla Indian Reservation
ES	Extension Service
HCPG	Habitat Conservation Planning Group
ID	Irrigation districts
LCDC	Oregon Land Conservation and Development Commission
NGOs	Non-governmental organizations
NMFS	National Marine Fisheries Service
NRCS	U.S. Natural Resource Conservation Service
ODEQ	Oregon Department of Environmental Quality
ODFW	Oregon Department of Fish and Wildlife
ODOF	Oregon Department of Forestry
ODSL	Oregon Division of State Lands
OSP	Oregon State Police
OWRD	Oregon Water Resources Department

RUT	Recovery unit team
TMDLWG	Total Maximum Daily Load working group
UPRR	Union Pacific Railroad
BOR	U.S. Bureau of Reclamation
USCOE	U.S. Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USFS	United States Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geologic Service
WC	Watershed councils
WDFW	Washington Department of Fish and Wildlife
WDNR	Washington Department of Natural Resources
WDOE	Washington Department of Ecology
WDOT	Washington Department of Transportation
WWBWC	Walla Walla Basin Watershed Council
WWRID	Walla Walla River Irrigation District

Cost Estimates: Cost estimates are rough estimates and are only provided for general guidance. Total costs are estimated for both the duration of the task and also itemized annually for the next five years.

Many of the tasks necessary for bull trout recovery are related to restoration of the watershed(s), and as such are currently being implemented to some degree through existing programs and mandates. However, current implementation is typically being carried out at limited funding levels and/or in only a portion of the watershed, and will need to be expanded to result in measurable gains toward the bull trout recovery goal and objectives. Most of these restoration tasks are strongly interrelated, and separate cost estimates in the accompanying implementation schedule represent very rough approximations. Costs would increase dramatically with widespread or accelerated implementation. Estimated costs represent minimum expenditures for steady progress toward long term recovery of the habitat and populations of bull trout over approximately a 25-year time frame.

Total estimated cost of bull trout recovery in this recovery unit is estimated at about 24 million dollars spread over a 25-year recovery time frame. If the time frame for recovery can be reduced, lower estimated total costs would occur.

An asterisk (*) in the total cost column indicates ongoing tasks that are currently being implemented as part of normal agency responsibilities under existing authorities. Because these tasks are not being done specifically or solely for bull trout conservation, they are not included in the cost estimates. Some of these efforts may be occurring at reduced funding levels and/or in only a small portion of the watershed.

Double asterisk (**) in the total cost column indicates that estimated costs for these tasks are not determinable at this time. Input is requested to help develop reasonable cost estimates for these tasks.

Triple asterisk (***) indicates costs are combined with or embedded within other related tasks.

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
Task Priority	**Task Number**	**Task Description**	**Task Duration (years)**	**Responsible Parties**	**Cost Estimates ($1,000)**					**Comments**
					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
1	1.2.4	Investigate and implement screens at Bennington Lake appropriate to handle flood flows to prevent bull trout entrainment in Bennington Lake during floods	4	**WDFW**; USCOE; USFWS;	650	50	50	250	250	
1	1.2.5	Investigate adequacy of Bennington ladder for upstream migration	2	**WDFW**	100	50	50			Cost share with 1.2.5
1	1.2.6	Establish connectivity to Walla Walla mainstem and prevent stranding (Garrison/Yellowhawk/Mill Creek channel complex)	3	**WDFW**	150	50	50	50		
1	1.2.7	Investigate and implement relocation of diversions, and irrigation efficiency improvements to benefit the bull trout with increased instream flows and decreased barriers	10	**WDFW**, **ODFW, CTUIR**	300	50	250			
1	1.2.8	Implement repairs to Hofer Dam ladder	2	**WDFW**	300	50	250			

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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
1	1.2.9	Improve passage at Dayton Steelhead Acclimation Pond Dam for bull trout	3	**WDFW** NMFS	400	50	300	50		
1	1.2.12	Review existing barrier lists in the Umatilla subbasin and determine which barriers affect or are likely to affect bull trout	2	**ODFW; CTUIR**	*					Should be incorporated into assessment process
1	1.2.15	Implement long-term solution to fish mortality problems at the Mill Creek Diversion and monitor for effectiveness	5	**USFWS**; **NMFS**; ODFW; CTUIR; City of Walla Walla	250	50	50	50	50	Costs are for monitoring effectiveness of screens installed in 2001
1	1.2.16	Implement Titus ditch/diversion project (screens and passage).	4	**WDFW**; WDOE; CD	650	50	200	200	200	
1	1.2.17	Complete ongoing culvert and other transportation related assessments and implement solutions where barriers affect bull trout	7	**USFS; WDNR; ODOT**	1100	50	50	200	200	

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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
1	1.3.14	Explore solutions for improving migratory habitat in the Meacham Creek subbasin with Union Pacific Railroad	2	**USFWS**; UPRR; ODFW; CTUIR	150	75	75			
1	1.3.15	Explore long-term solutions to restoration of flows at Nursery Bridge	4	**USFWS**; RUT; **NMFS**	20	5	5	5	5	Ongoing
1	5.6.1	Determine life history requirements of local resident and migratory bull trout populations	5	**ODFW; WDFW; CTUIR**	150	30	30	30	30	
1	5.6.2	Investigate connectivity among bull trout populations in the Umatilla/Walla Walla Recovery Unit and the adjacent Columbia River	5	USFWS; **ODFW; WDFW; CTUIR**; USCOE	500	100	100	100	100	USCOE recommends starting with Walla Walla River, and then Umatilla
1	6.1.4	Work cooperatively with neighboring States and tribal government in watersheds that span interstate boundaries	25	**RUT**	*					Ongoing

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	1.1.3	Assess sediment inputs in the Umatilla Core Area	5	**USFS**, Umatilla County	*					Costs included in ongoing watershed assessments
2	1.1.6	Address road issues in the Touchet subbasin	2	**USFS**, County, WDOT	200	100	100			
2	1.1.11	Assess water quality with regard to temperature and suitability for bull trout in the Walla Walla Basin	25	**ODEQ, WDOE**, WWBWC, TMDLWG	*					
2	1.1.14	Assess and minimize effects on bull trout from point and nonpoint source pollution	25	**ODEQ, WDOE**	*					TMDL management plans have been developed and cost estimates associated with these activities will be developed.

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	1.2.1	Inventory screen needs in the Walla Walla Core Area in Washington	10	**WDFW**, WDOE	1500	150	150	150	150	
2	1.2.2	Screen pumps in the Walla Walla subbasin in Oregon	5	**ODFW**, OWRD	1000	200	200	200	200	
2	1.2.18	Support City of Pendleton's effort to convert from springs at Squaw Creek to Umatilla River at Pendleton for its water supply	5	ODFW, CTUIR, OWRD, USCOE, **City**	750	150	150	150	150	
2	1.2.19	Investigate potential to increase instream flows	25	**OWRD**, ID's, WWBWC, CTUIR, USFWS, NMFS, ODFW, WDFW	450	150	150	150		Ongoing

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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	1.2.20	Investigate the ground-water surface water connection in the Walla Walla Basin	5	WWBWC, OWRD, WDOE, **USCOE**	***					Costs included as part of task #1.2.21
2	1.2.21	Improve instream flows for salmonids in the Walla Walla Core Area	10	USCOE, **RUT**	1000	100	100	100	100	
2	1.2.22	Continue bull trout salvage program until long-term solution is found.	10	**RUT**	250	25	25	25	25	
2	1.3.1	Identify opportunities and incentives to revegetate areas in riparian zones	25	**USFS**, private landowners, **USCOE**, All	*					
2	1.3.2	Investigate opportunities for riparian restoration behind flood control dikes	25	**USCOE**	*					
2	1.3.3	Evaluate and improve methods used for flood repair in the Umatilla and Walla Walla Core Areas	25	**RUT**	*					Ongoing

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	1.3.4	Restore floodplain function and channel complexity in the Umatilla Core Area	10	**RUT**	2000	200	200	200	200	
2	1.3.5	Protect flood prone areas from re-development in the mainstem Umatilla River from Meacham Creek to the forks of the Umatilla River	4	**RUT**	650	50	200	200	200	
2	1.3.6	Evaluate problems and identify solutions to restore channel complexity in the lower 4.8 kilometers of the South Fork Umatilla River	2	**USFS**	100	50	50			
2	1.3.9	Identify and promote incentives and programs to restore floodplain function and channel complexity in the Walla Walla Core Area	10	**RUT**	100	10	10	10	10	

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
Task Priority	**Task Number**	**Task Description**	**Task Duration (years)**	**Responsible Parties**	**Cost Estimates ($1,000)**					**Comments**
					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	1.3.10	Improve instream habitat between Division and Bennington Diversions in Mill Creek and in the Touchet River above Dayton and downstream to Waitsburg	10	**USCOE,** WDFW, **USFWS**	2000	200	200	200	200	
2	1.3.11	Increase instream habitat by restoring recruitment of large woody material or other means	5	**RUT**	200	50	50	50	50	
2	1.3.12	Reduce grazing impacts	25	**Landowners, USFS,** CD's; ES, UPRR	**					Costs Unknown; some costs associated with implementation of Federal grazing management programs
2	1.3.13	Evaluate enforcement of existing livestock grazing regulations to reduce unauthorized livestock use on the National Forest in North Fork Meacham Creek	10	**USFS**	*					

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	1.3.16	Develop a team of biologists and hydrologists to determine appropriate instream flows within reaches of the Walla Walla Core Area	5	ODFW, WDFW, **USFWS,** NMFS, BOR, RUT	350	75	75	75	75	Costs are part of implementing task #1.2.20, 1.2.21, and 1.2.22
2	1.4.1	Review City of Walla Walla and U.S. Army Corps of Engineers operations in Mill Creek and the Walla Walla River	5	**USFWS**, ODFW, WDFW, USCOE	*					
2	1.4.2	Provide adequate flows for fish passage below diversion dams	8	USFWS, ODFW, WDFW, NMFS	3200	400	400	400	400	
2	1.5.2	Review fire suppression methods	25	**USFS, ODF, WDNR**	*					Ongoing
2	3.1.1	Incorporate bull trout recovery actions into State and regional plans	25	**RUT**	*					Ongoing

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	3.1.2	Coordinate bull trout recovery with recovery efforts, management plans, etc. for other species	25	**ODFW,** WDFW, CTUIR, **USFWS**, NMFS	*					Ongoing
2	3.4.1	Improve and/or implement fisheries management guidelines and policies designed to protect native species	25	**ODFW, WDFW**	*					Ongoing
2	5.2.1	Determine suitability of temperature regimes in currently occupied and potentially restorable bull trout drainages	5	**USFWS,** WDFW, USFS	375	75	75	75	75	
2	5.2.2	Determine movement and seasonality of use of different habitat types by bull trout	5	**USFWS, ODFW, WDFW, CTUIR, USFS**	500	100	100	100	100	

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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	5.5.3	Complete watershed assessments in the North Fork Walla Walla and Touchet subbasins and identify extent of use by bull trout	3	**WDNR,** Whitman College	150	50	50	50		
2	6.1.1	Support collaborative efforts by local and regional (basin wide) watershed groups and others to accomplish site specific protection/restoration activities	10	RUT, ODFW, WDFW, TMDLWG; WC; CD's	1000	100	100	100	100	
2	6.1.2	Provide long-term habitat protection	15	**RUT**	***					Potential projects will be identified through tasks 1.2.3, 1.3.2, 1.3.4, and 1.3.5, 5.5.1, and 6.1.4
2	6.1.7	Explore changes to local, State, and tribal plans to protect springs and non-fish bearing waters in the Walla Walla Core Area	25	**RUT**	*					Ongoing

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
2	6.1.8	Develop a cooperative agreement for instream water rights/minimum flows to protect flows to the Columbia River within the Walla Walla Core Area	25	**WDOE, OWRD**, NMFS, USFWS	*					Ongoing
2	6.3.2	Review and modify emergency flood repair rules that impact bull trout	25	**ODFW, WDFW**, RUT	*					
2	7.1.1	Develop a Participation Plan to support implementation in the recovery unit	3	**RUT**	150	50	50	50		
3	1.1.1	Investigate extent of sediment input from road network in North Fork Meacham Creek watershed	3	**USFS**	*					This task will be accomplished through implementation of Forest Plan revisions.

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
3	1.1.2	Investigate options to reduce effects of the County road in the Umatilla River and tributaries from Meacham Creek to the forks	2	**Umatilla County**	150	100	50			
3	1.1.4	Assess sediment sources/inputs in the Walla Walla Core Area	5	**USFS, BLM**, USEPA, ODEQ, WWBWC, **NRCS**, BCC, County	100	20	20	20	20	
3	1.1.5	Determine feasibility of trail relocation on USFS and BLM managed lands in the Walla Walla Basin	2	**USFS; BLM**	100	50	50			
3	1.1.7	Take corrective action and/or provide programs to address sediment inputs and waste dumping in storm drains in the mainstem Walla Walla River	4	ODEQ, WDOE. Cities, Counties, CD's	40	10	10	10	10	

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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
3	1.1.8	Improve storm runoff system in Milton-Freewater	5	ODEQ, City of Milton-Freewater	**					Costs unknown
3	1.1.9	Investigate source of increased phosphate levels in South Fork Walla Walla River on BLM land	3	**BLM**	75	25	25	25		
3	1.1.10	Investigate extent of water quality problems associated with residences (septic discharges) along the river in the Umatilla Core Area on bull trout streams	3	ODEQ, TMDLWG	150	50	50	50		
3	1.1.12	Assess extent of chlorine and other chemical inputs into Mill Creek from City of Walla Walla sewer treatment plant and related irrigation use and their impacts to bull trout	2	WDOE, WDFW, City of Walla Walla	100	50	50			Assessment costs only
3	1.1.13	Remedy point sources of thermal effluent	10	ODEQ, WDOE	*					Walla Walla TMDL in progress

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
3	1.1.15	Identify site-specific threats that may be limiting bull trout in watersheds not already evaluated	5	RUT	500	100	100	100	100	
3	1.2.3	Investigate options for screening on Smith Ditch with Walla Walla River Irrigation District	2	WWRID, ODFW, CTUIR	100	50	50			
3	1.2.10	Remove passage barrier at Feed Canal/Cold Springs Diversion on the Umatilla River	2	ODFW	300	150	150			
3	1.2.11	Investigate possible impacts to bull trout with downstream passage at Three-mile Dam	2	ODFW; CTUIR	200	50	150			
3	1.2.13	Continue monitoring for passage barriers in the Walla Walla Core Area and identify necessary remedial actions as needed	5	**ODFW; OSP; WDOE; WDFW; CTUIR**	*					
3	1.2.14	Monitor new ladder and screen modifications at Mojonnier Dam	5	**WDFW**	250	50	100	100		

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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
3	1.3.7	Reduce channel constrictions in the South Fork Walla Walla between the U.S. Forest Service boundary and Harris Park	3	**ODFW;** BLM;	30	10	10	10		
3	1.3.8	Evaluate alternative access for cabin owners in the South Fork Walla Walla between National Forest boundary and Harris Park, and the upper South Fork Touchet River	3	**USFS; BLM**	50	20	20	10		
3	1.3.16	Implement stream gauging programs in Washington and Oregon	5	**WDOE, WRD**, USGS, BPA	*					
3	1.5.1	Assess current and historical effects of upland management on changes to the hydrograph	2	**RUT**	100	50	50			

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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
3	1.5.3	Investigate use of prescribed fire to mimic natural disturbance to reinvigorate forest in South Fork Umatilla River above the lower 4.8 kilometers and in Shimmiehorn Creek	3	**USFS**	60	20	20	20		
3	2.3.1	Design and implement educational effort about the problems and consequences of unauthorized fish introductions	2	**ODFW; WDFW; CTUIR**; OSP; USFWS; USFS; NMFS; WCs	20	10	10			
3	2.4.1	Evaluate site-specific biological, economic, and social impacts of nonnative fish species on bull trout	2	**ODFW; WDFW; CTUIR**	50	25	25			Costs will be part of implementation of statewide nonnative species programs
3	2.5.1	Implement management actions to reduce nonnative fish species where bull trout will benefit and where appropriate	2	**ODFW; WDFW; CTUIR**	50	25	25			Costs will be part of implementation of statewide nonnative species programs

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3	3.2.1	Maintain bull trout as high priority for Oregon's Cooperative Enforcement Program and with WDFW enforcement division	25	**ODFW; OSP; WDFW**	0					Ongoing
3	3.2.2	Conduct additional patrols during vulnerable times (*e.g.*, spawning), and coordinate these among agencies	25	USFWS OSP ODFW WDFW CTUIR	*					
3	3.2.3	Review and improve disincentives to illegal harvest of bull trout	25	OSP; WDFW; WC; ODFW	*					

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3	3.2.4	Provide information to the public about bull trout identification and special regulations	5	ODFW*; WDFW*; CTUIR*; USFS; BLM; WC; Educational Institutions	50	10	10	10	10	Pro-rated costs as part of statewide program
3	3.2.5	Explore with land owners the feasibility of interpretive signs at the Bar M Ranch (Reach IV)	1	ODFW	10	10				
3	4.1.1	Determine genetic relationships between bull trout populations in the Umatilla/Walla Walla Recovery Unit	4	USFWS; ODFW; WDFW; CTUIR	100	25	25	25	25	
3	5.4.1	Maintain fish health screening and transplant protocols to reduce risk of disease transmission	25	ODFW; WDFW; CTUIR; USFS; NMFS	*					Ongoing

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3	5.5.1	Examine comment sections in passage logs for McNary Dam for documentation of bull trout or Dolly Varden observed	1	USCOE	25	25				
3	5.5.2	Conduct regular surveys in potential habitat where bull trout status is unknown or re-colonization is anticipated	10	ODFW*; WDFW*; CTUIR*; WC	500	50	50	50	50	
3	6.1.3	Work with county and city agencies to minimize bull trout impacts related to floodplain development	2	RUT; WC; Cities; Counties	*					
3	6.1.5	Develop and distribute educational materials for public and landowners on bull trout and their habitat needs	3	RUT	5	2	2	1		
3	6.1.6	Work with local communities on education projects	10	RUT	*					

Implementation schedule for the bull trout recovery plan: Umatilla/Walla Walla Recovery Unit										
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					Total Cost	**Year 1**	**Year 2**	**Year 3**	**Year 4**	
3	6.3.1	Evaluate the Oregon Forest Practices Act and rules relative to bull trout habitat requirements.	25	RUT	*					Ongoing
3	6.3.3	Review land use plans in Oregon and modify where appropriate	2	ODFW; LCDC; CTUIR; Counties; Cities	*					
3	7.3.1	Periodically assess progress toward recovery goals and assess recovery task priorities	25	USFWS; RUT	*					Every 5 years